

DAVID IGE
GOVERNOR OF HAWAII

JOSH GREEN
LIEUTENANT GOVERNOR



HAWAII INVASIVE SPECIES COUNCIL

1151 PUNCHBOWL ST, #325
HONOLULU, HAWAII 96813

VOTING MEMBERS

SUZANNE CASE
DEPARTMENT OF LAND & NATURAL
RESOURCES

PHYLLIS SHIMABUKURO-GEISER
DEPARTMENT OF AGRICULTURE

KEITH KAWAOKA D.Env
DEPARTMENT OF HEALTH

NICHOLAS COMERFORD, Ph.D.
UNIVERSITY OF HAWAII

MARY ALICE EVANS
DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

DAVID RODRIGUEZ
DEPARTMENT OF TRANSPORTATION

PUBLIC MEETING NOTICE

Hawaii Invasive Species Council

August 27, 2020, 1:00 PM

Considering the evolving COVID-19 situation, protecting the health and welfare of the community is of utmost concern. As such, the meeting will be held remotely, with Council members, legislative participants, and staff participating via online meeting software. We will attempt to livestream the meeting at:

https://www.youtube.com/channel/UCFT6SAASZIUxd_XgZMCjGsQ

Testimony may be provided in person or in writing, submitted electronically to Randal.T.Bartlett@hawaii.gov. To give Board members sufficient time to consider written testimony, please submit the testimony no later than 24 hours prior to the Board Meeting. Any late written testimony will be retained as a part of the record, but we cannot assure that Board members will receive it with sufficient time for review prior to decision-making.

AGENDA

1. Call to order
2. Introductions
3. Approval of minutes from May 20, 2020 meeting
4. Discussion: Congressman Ed Case on COVID19 relief funding, Forest bill and other natural resources updates
5. Submittal: Requesting approval of a recommended budget for Fiscal Year 2021
6. Public Comments
7. Adjournment

The Council may go into Executive Session pursuant to Section 92-5(a) (4), Hawaii Revised Statutes, in order to consult with its attorney on questions and issues pertaining to the Council's powers, duties, privileges, immunities and liabilities.

Individuals requesting special accommodations (e.g., large print materials, sign-language interpreters) are asked to contact the staff below at least three days prior to the meeting.

For information, contact:

HISC Support staff: 1151 Punchbowl St, #325, Honolulu, HI 96813; Fax: 587-0160

Josh Atwood, Program Supervisor: 587-4154, [Joshua.P.Atwood \[at\] hawaii.gov](mailto:Joshua.P.Atwood@hawaii.gov)

Randy Bartlett, Interagency Coordinator: 870-6443, [Randal.T.Bartlett \[at\] hawaii.gov](mailto:Randal.T.Bartlett@hawaii.gov)

Leyla Kaufman, Mamalu Poepoe Project Coordinator: [leyla \[at\] hawaii.edu](mailto:leyla@hawaii.edu)

Chelsea Arnott, Planner: [Chelsea.L.Arnott \[at\] hawaii.gov](mailto:Chelsea.L.Arnott@hawaii.gov)

Elizabeth Speith, 643pest.org Report Facilitator: [speith \[at\] hawaii.edu](mailto:speith@hawaii.edu)

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PUBLIC MEETING MINUTES

Hawaii Invasive Species Council

May 20, 2020, 1:00 PM

Considering the evolving COVID-19 situation, protecting the health and welfare of the community is of utmost concern. As such, this meeting was held remotely, with Council members, legislative participants, and staff participating via online meeting software.

AGENDA

1. Call to order: Chair Case calls meeting to order at 1:03 pm
2. Introductions:
 - a. Council members: *Suzanne Case (DLNR, Co-Chair), Phyllis Shimabukuro-Geiser (HDOA, co-chair), Nicholas Comerford (UH-CTAHR), David Rodriguez (HDOT), Keith Kawaoka (DOH)*
 - b. Legislative participants: *Senate President Kouchi, Representative Lowen, Representative Wildberger Representative Nakamura*
 - c. Agency/project staff: *Josh Atwood (HISC Coordinator), Randy Bartlett (HISC Interagency coordinator), Jules Kuo (DLNR-DAR), Leyla Kaufman (HISC-MP), Christy Martin (Coordinating Group on Alien Pest Species)*
3. Approval of minutes from November 22, 2019 meeting - *Approved*
4. Presentation: Summary of HISC & CGAPS 2025 Joint Strategy and restructured HISC Working Groups – *Josh Atwood, Chelsea Arnott*
 - a. Discussion with Council
 - i. *Rep Nakamura* –
 1. Are the strategies in order of priority? Josh – No, funding is number six and that's important every strategy. Each strategy is a priority for a different sector so it's difficult to prioritize one over the other.
 2. Why are there only 5 working groups for 10 strategies? Josh – some of the working groups take on more than one strategy like the Prevention/EDRR WG is Strategy 1&2. Strategies 8-10 are organizational development that will be overseen by the HISC and CGAPS. We decided that the funding strategy is a core function and would be implemented by HISC and CGAPS.
 - ii. *Shimabukuro-Geiser* – The Governor signed the state Myrtaceae rule so need to change the language in Strategy 1, KA 5 to reflect that. We have also intercepted several importations of Myrtaceae since implementation.
 1. *Josh* – that is a minor change that we can make before finalizing the plan.

- b. Discussion from YouTube (public)
 - i. The Research and Technology Working Group was a forum to work on the new pest, Asian longhorn beetle. Would it be a priority in the future?
 - ii. *Josh* – yes, it can be. The best fit would be under the Prevention/EDRR WG.
 - iii. CGAPS continues to work on the foreign Myrtaceae restriction
- 5. Submittal: Requesting approval of 2025 HISC & CGAPS Joint Strategy and restructured HISC Working Groups.
 - a. David Rodriguez moved and Nick Comerford seconded. All executive branch members voted Aye.
- 6. Presentation: Aquatic biosecurity capacity needs relating to the federal Vessel Incidental Discharge Act – *Jules Kuo (DLNR-DAR)*
 - a. Discussion with Council
 - i. Rep Nakamura – CA shipping fee cannot be adopted here?
 - 1. *Christy* – VIDA doesn't allow you to create any shipping fee after the bill was signed so Hawaii missed out on that.
 - 2. What are the fees exactly?
 - a. *Christy* – for vessel biofouling and ballast water. Fees could only be utilized for work in commercial ports but we also need to address noncommercial vessels which is why we wouldn't necessarily use a port fee.
 - ii. *Case* – Governor petition to the USCG? More effective to go through individual agencies.
 - 1. *Jules* – Yes, it would better to go through individual agencies.
 - iii. *David Rodriguez* – reiterates that HDOT is in support of protecting the environment and how we can move forward with the current situation of COVID-19?
 - 1. *Josh* - HIBP, Aquatic Strategic Plan, and the 2025 Strategy are all based on building capacity for invasive species work, particularly in recovering from the 2008 economic downturn. How do we move forward as we enter another economic downturn?
 - 2. *Case* - We need to find places where we can make the progress. Maybe it's regulatory versus dollar amount work right now. It's uncertain times.
 - iv. *Rep Wildberger* – Is there something we can look at for resiliency funding? How can we frame something like that?
 - 1. *Josh* - Looking at what the federal funding available will be to support these projects.
 - 2. *Rep Wildberger* – Suggest growing our Christmas trees locally and stopping importation, doing major tree plantings
 - 3. *Case* - Looking at job programs, Conservation Corp-style projects.
 - 4. *Sen Kouchi* - \$610 million into the rainy day fund. Everything is predicated on whether they move stimulus or not. FY21 and 22 is going to be an even tougher funding picture. It's really hard to predict. Not able to increase tax revenue because there's no revenue to tax currently.
 - a. *Case* - Great amount of need but no money to do it.

5. *Josh* – We can share our departmental list of potential projects for stimulus funding related invasive species to address Rep Wildberger’s point, with DLNR approval.
 - a. *Rep Wildberger* – can we stop the importation of Christmas trees this year?
 - i. *Josh* – I don’t have an answer for that.
 - b. Discussion on YouTube (public)
 - i. Question: To be qualified as an EPA NDZ there has to be 100% coverage for vessels (including recreational vessels) to be able to discharge sewage, grey water, ballast water, etc. to a shoreside facility? Washington State did not meet this requirement, but the EPA granted them NDZ status anyways. They are now tied up in a legal battle.
 1. Jules answered offline due technical difficulties:
7. Presentation: Outline of potential biosecurity video projects
8. Public Comments
 - a. Christy Martin (CGAPS) – testimony posted on HISC website.
9. Adjourned by Chair Case; 2:38 pm

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TOURISM

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August 27, 2020

SUBMITTAL

TO: Co-chairs and Members
Hawaii Invasive Species Council
State of Hawaii

FROM: Justine Nihipali, Resources Working Group Chair, and
Chelsea Arnott, Planner
Hawaii Invasive Species Council

SUBJECT: Requesting approval of a recommended budget for Fiscal Year 2021

Background

Since its inception in 2003, the Hawaii Invasive Species Council (HISC) has disbursed funding to support interagency invasive species projects that:

- Fill gaps between agency mandates or existing agency programs, and/or
- Advance our collective knowledge through research and development of new tools.

Funds are disbursed via an intra-governmental granting process wherein state, county, and federal offices may submit requests for funding and meet to collaboratively draft a recommended budget for HISC review.

For Fiscal Year 2021 (FY21), the legislature appropriated \$5,750,000 to the HISC. This amount is subject to a 10% expenditure restriction by the Department of Budget and Finance. The appropriation is also subject to fees or overhead from the Division of Forestry and Wildlife (DOFAW) at the Department of Land and Natural Resources (DLNR), as the administrative host of the HISC. This includes an accounting for DOFAW personnel prior to the disbursement of operational funds, in particular for the program LNR402 that includes the HISC program but also wildlife positions related to native resource protection and other issues. The overhead rate assessed by DOFAW also increased from 6% to 8% this year. Personnel charges and overhead totalled \$616,848 in FY21. However, during the Resources Working Group meeting on August 12th, DOFAW leadership offered to cover the cost of a mosquito research proposal with alternative funding and count this toward the legislative minimum of \$100,000 to be contributed toward landscape scale mosquito control technology, effectively reducing the burden on HISC funds by \$69,500.

The amount of funding required for one year of core programs that the Council funds on an annual basis is \$439,943. This includes:

- The “HISC Support” project, including two full-time temporary positions (HISC Planner and HISC Interagency Coordinator), one part-time Online Reporting Technician at 0.5

FTE, and 0.15 FTE support for the HISC Projects Coordinator that manages the interagency airports biosecurity project Māmalu Poepoe. HISC Support Program budget also provides associated travel, supplies, and other costs associated with administration of the HISC and its supported projects.

- Intermittent support for programmers and administrators associated with online product development under a project known as the Hawai‘i Biodiversity Information Network (HBIN). HBIN manages the online pest reporting system 643pest.org as well as other invasive species products.
- Support for the Hawai‘i-Pacific Weed Risk Assessment, which employs one weed risk assessor.

The remaining balance of \$4,118,209 is available for interagency project grants.

Discussion

The preparation of a recommended budget for the HISC was accomplished via the following process:

- A call for proposals was released in April, with applications due by close of business on June 5.
- As described in the proposal guidelines, applications must demonstrate applicability to the new funding priorities outlined in the “HISC & CGAPS 2025 Joint Strategy: In support of the Hawaii Interagency Biosecurity Plan”.
- An evaluation committee comprised of working group chairs and other agency representatives assigned a quantitative score to each application based primarily on how well the application addressed the stated funding priorities. Applications also received points for interagency relevancy and the proportion of the overall project budget supported by non-HISC funds.
- On August 12th the Resources Working Group facilitated a virtual meeting of the evaluation committee to discuss applications and develop a balanced recommended budget. This meeting was open to any interested parties.

Requests received for FY21 totaled \$9,058,446 across 53 applications. Nineteen applications were not recommended for funding and one proposal was withdrawn from consideration at the request of the applicant. In most cases this was due to a lack of resources available rather than a lack of project merit. In some cases, this was due to alternative funding being identified for the project. For the 33 applications remaining, the Resources Working Group recommended partial funding based on the amount requested, application merit (e.g., score), and the overall amount of available funding. Applicants were asked at the time of submission to indicate whether their projects were scalable, indicating that a partial award would be useful in contributing toward the overall project budget.

In FY20 the legislature provided an additional \$1,000,000 in funding to the HISC for interagency projects. The budget worksheets for Act 5, SLH 2019 stipulate that this additional appropriation should be used for the following purposes. The recommended budget proposed by the Resources Working Group meets or exceeds the amounts stipulated by Act 5:

- \$500,000 for the Invasive Species Committees Statewide
- \$61,200 for Maui Little Fire Ant Response
- \$63,000 for Maui Coqui Frog Containment
- \$275,800 for Biocontrol of Invasive Plant Targets
- \$100,000 for Landscape Scale Mosquito Control Technology.

Individual recommendations for each application can be found in Attachment 1.

Legal Authority

- HRS 194-2 (a): Establishes the HISC for the purpose of cabinet-level coordination and planning among state departments, federal agencies, and international and local initiatives
- HRS 194-2 (a)(4): Directs the HISC to create and implement a plan for prevention, early detection, rapid response, control, enforcement, and education
- Act 5, SLH 2019: Provides \$5,750,000 in general funds to be disbursed by DLNR as directed by the HISC

Recommendations

1. That the HISC approve the FY21 budget for HISC support and an interagency project portfolio in substantially the same form as recommended by the Resources Working Group, and
2. That, should the Department of Budget and Finance make any changes to the restriction on expenditures, the HISC delegate authority to the HISC Support Staff to identify best way to apply additional restrictions to project funds, or to identify best uses of any released funds, and
3. That, if there are any changes in the scope or implementation of projects over the course of the year, the Council delegate authority to the HISC Support staff to make adjustments to project funds or reassign project funds from any project that does not proceed in a timely manner.

Attachments:

- FY21 Budget Recommendations of the HISC Resources Working Group

Attachment 1: FY21 Budget Recommendations of the HISC Resources Working Group

Table 1: Projects Recommended for Funding

Rank	Project Description	Agency, Division	Requested Amount	Recommended Amount
1	Coordinating Group on Alien Pest Species	UH PCSU, Coordinating Group on Alien Pest Species	\$ 49,000	\$ 40,000
2	Hawaii Ant Lab core funds	UH PCSU, Hawaii Ant Lab	\$ 284,592	\$ 208,000
3	Plants of Hawaii electronic database	Bishop Museum	\$ 109,863	\$ 66,972
4	Community Engagement on the Island of Hawaii	UH PCSU, Big Island Invasive Species Committee	\$ 250,231	\$ 145,909
5	OISC Control & Eradication of High Priority Invasive Species	UH PCSU, Oahu Invasive Species Committee	\$ 836,889	\$ 592,339
6	Rapid Ohia Death Detection and Response on Hawaii Island	UH PCSU, Big Island Invasive Species Committee	\$ 144,557	\$ 130,000
7	Coqui Frog Control and Monitoring Program on Maui	UH PCSU, Maui Invasive Species Committee	\$ 221,858	\$ 123,484
8	Detection and Control of Invasive Species on Hawaii Island	UH PCSU, Big Island Invasive Species Committee	\$ 1,107,769	\$ 597,097
9	Invasive Species Outreach and Education in Maui County	UH PCSU, Maui Invasive Species Committee	\$ 193,585	\$ 103,219
10	Kauai Invasive Species Committee Early Detection and Control	UH PCSU, Kauai Invasive Species Committee	\$ 870,500	\$ 514,273
11	Continuing Mamalu Poepoe: invasive species surveillance at Hawai'i's airports	UH PCSU, Hawaii Invasive Species Council	\$ 72,450	\$ 40,000
12	Rapid Ohia Death Response	DLNR DOFAW	\$ 275,000	\$ 138,485
13	Detection and Control of Invasive Species in Maui County	UH PCSU, Maui Invasive Species Committee	\$ 1,091,289	\$ 540,355
14	Little Fire Ant Control Program for Maui	UH PCSU, Maui Invasive Species Committee	\$ 113,483	\$ 61,200
15	Biopesticides and a natural compound delivered with water-storing hydrogels for control of invasive yellow crazy ants	UH CTAHR	\$ 70,017	\$ 31,548
16	Outreach and extension for management of Rapid Ohia Death on Hawaii Island	UH CTAHR	\$ 100,870	\$ 44,113

17	Invasive Species Outreach, Education, & Community Access on O'ahu	UH PCSU, Oahu Invasive Species Committee	\$ 204,877	\$ 156,000
18	Landscape-Scale Mosquito Control - Project Coordination	UH PCSU	\$ 30,500	\$ 30,500
20	Biocontrol of Himalayan ginger	USDA Forest Service	\$ 30,800	\$ 17,876
21	Biocontrol of invasive Rubus	USDA Forest Service	\$ 50,600	\$ 26,842
23	Novel control methods for the new marine invasive green alga <i>Avrainvillea erecta</i> , in Oahu coastal waters	UH School of Life Sciences	\$ 41,710	\$ 15,000
27	Public Outreach and Education on Kauai	UH PCSU, Kauai Invasive Species Committee	\$ 150,000	\$ 101,255
28	Biocontrol of melastomes and other high priority invasive plants	USDA Forest Service	\$ 177,700	\$ 81,810
29	Natural enemies for biocontrol of albizia	USDA Forest Service	\$ 199,200	\$ 89,893
30	Mark-release-recapture studies to improve mosquito surveillance capabilities on Maui island	HDOH, Vector Control Branch Maui	\$ 4,849	\$ 3,000
32	Oahu Specific Albizia Outreach and Community Control Team Development	UH PCSU, Koolau Mountain Watershed Partnership	\$ 60,913	\$ 18,000
34	Project Information: Biological control of <i>Schinus terebinthifolia</i> : Assessment of biocontrol agents and potential impacts on <i>Apis mellifera</i>	HDOA, Plant Industry	\$ 108,139	\$ 42,379
36	Hawaii Ballast Water and Biofouling	DLNR DAR	\$ 205,863	\$ 86,000
37	Removal of Three Established Eabbit Colonies on Hawaii Island	UH PCSU, Big Island Invasive Species Committee	\$ 21,850	\$ 6,660
39	Incipient control of <i>Tibouchina herbacea</i> on Oahu	UH PCSU, Koolau Mountain Watershed Partnership	\$ 53,967	\$ 15,000
42	The Home Stretch; Waiawa Regional Albizia Eradication Year III	UH PCSU, Koolau Mountain Watershed Partnership	\$ 45,543	\$ 12,000
43	KMWP Biocontrol Blitz; Strategic Establishment of <i>Tectococcus ovatus</i> Biocontrol Agents Across the Ko'olau and Development of Novel UAS Deployment Techniques	UH PCSU, Koolau Mountain Watershed Partnership	\$ 65,186	\$ 17,000
46	Investigating microbial linkages within holdfast filaments of the invasive leather mudweed, <i>Avrainvillea lacerata</i> , in coastal O'ahu.	UH School of Life Sciences	\$ 180,118	\$ 22,000

Table 2: Projects Not Recommended for Funding

Rank	Project Description	Agency, Division	Requested Amount
19	Developing an early detection tool for invasive species and exploration of the endemic Hawaiian tiger cowrie as a biocontrol strategy for invasive sponges	UH HIMB	\$ 120,561
22	Documenting spatio-temporal variation in mosquito populations to further landscape-level mosquito control to protect avian and human health	DLNR DOFAW	\$ 99,128
24	Developing biological resources for the control of the Queensland Longhorned Beetle	USDA ARS, PBARC	\$ 84,700
25	Promoting monitoring strategies for invasive social Hymenoptera	UH CTAHR	\$ 53,449
26	Identities, distributions, and rat lungworm screening of invasive flatworms (Platyhelminthes) in Hawaii.	Bishop Museum, Pacific Center for Molecular Biodiversity	\$ 57,806
31	Entomopathogenic fungi in a hydrogel-based sugar bait for mosquito control	UH CTAHR	\$ 50,010
33	Chemical and Biological Control of Oriental Flower Beetle, <i>Protaetia orientalis</i>	UH CTAHR	\$ 43,296
35	Early Detection & Rapid Response for Priority Invasive Species on O'ahu	UH PCSU, Oahu Invasive Species Committee	\$ 185,873
38	Development of mongoose control technology: refining the Goodnature A18 mongoose trap	DLNR DOFAW	\$ 50,000
40	Kauai Forestry eDNA	DLNR DOFAW Kauai	\$ 372,945
41	Early control of albizia (<i>Falcataria moluccana</i>) recruitment and restoring high value forests, also known as heritage forests	UH Lyon Arboretum	\$ 99,310
44	Investigating the impact of the non-native Caribbean Corkscrew Anenome (<i>Bartholomea annulata</i>)	DLNR DAR	\$ 94,776
45	Management of hala scale, an important invasive pest on <i>Pandanus</i> spp., and its current distribution in Hawaii	UH CTAHR	\$ 43,846
47	Dogs to sniff out invasive fruit flies and educate urban communities	UH CTAHR	\$ 7,315
48	Develop an outreach program on current invasive pest concerns on Kauai	UH CTAHR	\$ 6,820
49	At-large Cat Reduction Social Marketing Study	DLNR DOFAW	\$ 20,000
50	Data Modernization Initiative for the Tracking and Evaluation of Past, Present and Future Biological Control Releases	HDOA, Plant Industry	\$ 86,268

51	Invasive Ecology and Dispersal Behavior of American Bullfrogs in Hawaii	Hawaii Pacific University	\$ 6,363
52	Understanding the Genetic Basis of the Invasive Expansion of <i>Eleutherodactylus coqui</i> into Hawaii via Comparative Transcriptomics	DLNR DOFAW	\$ 53,542
53	Kauai Forestry Environmental Education	DLNR DOFAW Kauai	\$ 98,670

Abbreviations

Departments: DLNR= Department of Land and Natural Resources; HDOA= Hawaii Department of Agriculture; UH= University of Hawaii; USDA= US Department of Agriculture; HDOH= Hawaii Department of Health

Divisions: PCSU= Pacific Cooperative Studies Unit; CTAHR= College of Tropical Agriculture and Human Resources; ARS, PBARC= Agricultural Research Services Pacific Basin Agricultural Research Center, HIMB= Hawaii Institute of Marine Biology, DAR= Division of Aquatic Resources, DOFAW= Division of Forestry and Wildlife